K03397+

FEB - 6 2004

510(K) SUMMARY OF SAFETY AND EFFECTIVENESS

Submitter

Street: ESPE Platz

ZIP-Code, City: D-82229 Seefeld

Federal State:Bavaria

Country:Germany

Establishment Registration Number 9611385

Manager U.S. Regulatory Affairs

Fax:011-49-8152-700 1869

E-mail: Andreas.Petermann@mmm.com

Date: December 18, 2003

Name of Device

Common Name: Dental Adhesive

Predicate Devices

Adper Prompt L-Pop by 3M ESPE.....K 020946

RelyX Unicem by 3M ESPE.....K 020256

Protemp 3 Garant by 3M ESPEK 033022

3M ESPE HAUR by 3M ESPE......K 010781

Description for the Premarket Notification

Hermes Bond is classified as Resin Tooth Bonding Agent (21 C.F.R. § 872.3200) because it is a device intended to be painted on the interior of a prepared cavity of a tooth to improve retention of a restorative material.

Like Adper Prompt L-Pop, 3M ESPE's well-known and well-established resin bonding agent, Hermes Bond offers the advantages of a simplified bonding procedure, eliminating

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the need for a separate etching step. Thus it reduces both possible errors during application and post-operative sensitivity. Additionally, it saves the dentist valuable chair time.

Being based on methacrylate chemistry itself, Hermes Bond is well suited for bonding methacrylate composites. The compatibility to silorane based composites is ensured by the formulation of Hermes Bond which has especially been optimized for this purpose. The acidic methacrylates provide efficient etching of the dental hard tissue and initiation of the polymerization of the silorane-based composite (e.g. "Hermes")at the interface with the adhesive. The blend of co-monomers allows at the same time for the formation of a uniform adhesive film on dentin and enamel, and additional chemical crosslinking between OH-functionalized methacrylates and siloranes.

In fact, the bond strength obtained for Hermes/Hermes Bond is comparable to that of Adper Prompt L-Pop with conventional methacrylate composites.

The comparison for chemistry, performance data and indications for use shows that Hermes Bond is substantially equivalent to the predicate devices.

In summary, it can be concluded that safety and effectiveness requirements for Hermes Bond are completely met.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

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Dr. Andreas Petermann Manager, U.S. Regulatory Affairs 3M ESPE AG ESPE Platz Seefeld, D-82229 GERMANY

Re: K033974

Trade/Device Name: Hermes Bond Regulation Number: 21 CFR 872.200

Regulation Name: Resin Tooth Bonding Agent

Regulatory Class: II

Product Codes: KLE and EMA Dated: December 18, 2003 Received: December 22, 2003

Dear Dr. Petermann:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

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Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4613. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97) you may obtain. Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Chiu S. Lin, PhD

Director

Division of Anesthesiology, General Hospital,
Infection Control and Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known):		
Device Name:	Hermes Bond	
Indications For Use:	Bonding between dentin/enamel and silorane based composite filling materials	
	Bonding between dentin/enamel and methacrylate based composite filling materials	
Prescription Use Part 21 CFR 801 Subpart I	AND/OR	Over-The-Counter Use (21 CFR 807 Subpart C)
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